



SMD INDUCTORS

B6011 SERIES

FEATURES:

- Flame retardant encapsulant (UL 94 V-0)
- Completely encapsulated winding provides superior environmental protection and moisture resistance
- High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible

COMMON APPLICATIONS:

- Excellent power line noise filters
- Filters for switching regulated power supplies, DC/DC converters
- SCR and triac controls
- RFI suppression

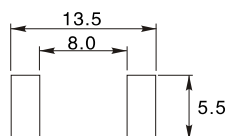
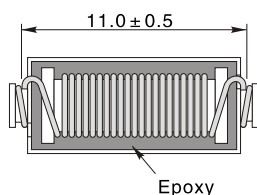
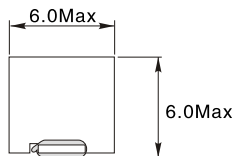
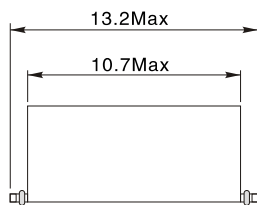
ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) @0Adc	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR Max. (Ω).	Part Number	Inductance L0(μH) @0Adc	Heat rating current DC Amps Irms(A)	Saturation current DC Amps Isat(A)	DCR Max. (Ω).
B6011-1R0Y	1.0	8.6	4.1	0.013	B6011-390Y	39.0	1.19	0.8	0.315
B6011-1R2Y	1.2	7.6	3.8	0.018	B6011-470Y	47.0	1.07	0.74	0.362
B6011-1R5Y	1.5	6.9	3.5	0.02	B6011-560Y	56.0	0.95	0.68	0.397
B6011-1R8Y	1.8	6.5	3.2	0.021	B6011-680Y	68.0	0.87	0.62	0.446
B6011-2R2Y	2.2	5.7	2.9	0.029	B6011-820Y	82.0	0.8	0.56	0.604
B6011-2R7Y	2.7	5.1	2.6	0.034	B6011-101Y	100.0	0.73	0.5	0.672
B6011-3R3Y	3.3	4.6	2.4	0.038	B6011-121Y	120.0	0.66	0.45	0.735
B6011-3R9Y	3.9	4.3	2.2	0.042	B6011-151Y	150.0	0.58	0.4	0.998
B6011-4R7Y	4.7	4.0	2.0	0.047	B6011-181Y	180.0	0.5	0.35	1.37
B6011-5R6Y	5.6	3.8	1.9	0.051	B6011-221Y	220.0	0.46	0.32	1.58
B6011-6R8Y	6.8	3.5	1.7	0.058	B6011-271Y	270.0	0.41	0.3	1.77
B6011-8R2Y	8.2	3.3	1.5	0.063	B6011-331Y	330.0	0.37	0.28	2.51
B6011-100Y	10.0	3.1	1.4	0.071	B6011-391Y	390.0	0.34	0.26	2.73
B6011-120Y	12.0	2.7	1.3	0.079	B6011-471Y	470.0	0.32	0.24	3.36
B6011-150Y	15.0	2.3	1.2	0.089	B6011-561Y	560.0	0.3	0.23	3.75
B6011-180Y	18.0	1.9	1.1	0.119	B6011-681Y	680.0	0.28	0.2	4.31
B6011-220Y	22.0	1.7	1.02	0.152	B6011-821Y	820.0	0.26	0.17	6.04
B6011-270Y	27.0	1.6	0.95	0.179	B6011-102Y	1000.0	0.24	0.15	6.9
B6011-330Y	33.0	1.3	0.88	0.222	B6011-152Y	1500.0	0.075	0.46	7.3

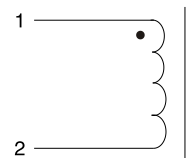
PHYSICAL CHARACTERISTICS:

WINDING:

DIMENSIONS(MM)



LAND PATTERNS



- Testing: (Equivalent acceptable)
Inductance: HP4284A, 1.0KHz / 1Vdc@25°C
RDC: QuadTech 1880 Milliohm meter
- Inductance Tolerance: $\pm 15\%$
- Isat Max: Determined when superimposed DC current is decreased 5% against its initial value
- Operating temperature: -25°C to +105°C (Including temp. rise 40°C)
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance



SMD INDUCTORS B6012 SERIES

FEATURES:

- Flame retardant encapsulant (UL 94 V-0)
- Completely encapsulated winding provides superior environmental protection and moisture resistance
- High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible

COMMON APPLICATIONS:

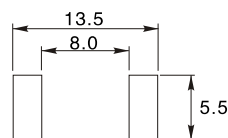
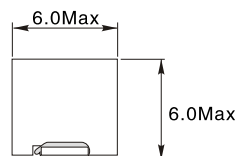
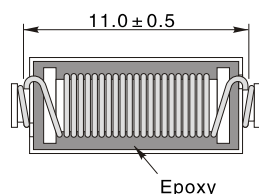
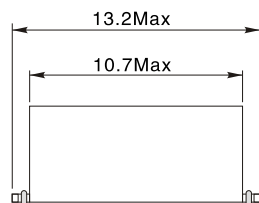
- Excellent power line noise filters
- Filters for switching regulated power supplies, DC/DC converters
- SCR and triac controls
- RFI suppression

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) @0A _{dc}	Heat rating current DC Amps I _{rms} (A)	Saturation current DC Amps I _{sat} (A)	DCR Max. (Ω).	Part Number	Inductance L0(μH) @0A _{dc}	Heat rating current DC Amps I _{rms} (A)	Saturation current DC Amps I _{sat} (A)	DCR Max. (Ω).
B6012-1R0M	1.0	1.8	16.2	0.012	B6012-101K	100.0	0.2	1.6	0.961
B6012-1R2M	1.2	1.8	15.3	0.013	B6012-121K	120.0	0.2	1.4	1.03
B6012-1R5M	1.5	1.8	14.4	0.014	B6012-151K	150.0	0.2	1.4	1.08
B6012-1R8M	1.8	1.8	9.0	0.015	B6012-181K	180.0	0.2	1.3	1.19
B6012-2R2M	2.2	1.4	8.6	0.022	B6012-221K	220.0	0.2	1.2	1.25
B6012-2R7M	2.7	1.2	8.1	0.032	B6012-271K	270.0	0.15	1.1	1.56
B6012-2R2M	3.3	1.2	7.7	0.034	B6012-331K	330.0	0.15	1.0	1.80
B6012-3R9M	3.9	0.7	6.5	0.065	B6012-391K	390.0	0.12	0.9	2.62
B6012-4R7M	4.7	.7	5.5	0.068	B6012-471K	470.0	0.12	0.81	2.88
B6012-5R6M	5.6	0.7	5.2	0.073	B6012-561K	560.0	0.1	0.72	3.83
B6012-6R8M	6.8	0.7	5.0	0.077	B6012-681K	680.0	0.1	0.58	4.20
B6012-8R2M	8.2	0.7	4.8	0.081	B6012-821K	820.0	0.1	0.54	4.53
B6012-100M	10.0	0.7	4.7	0.103	B6012-102K	1000.0	0.1	0.52	4.79
B6012-120K	12.0	0.7	4.4	0.107	B6012-122K	1200.0	0.075	0.49	6.34
B6012-150K	15.0	0.7	4.1	0.112	B6012-152K	1500.0	0.075	0.46	7.30
B6012-180K	18.0	0.7	3.8	0.125	B6012-182K	1800.0	0.06	0.43	11.22
B6012-220K	22.0	0.6	3.0	0.167	B6012-222K	2200.0	0.06	0.38	12.41
B6012-270K	27.0	0.5	2.6	0.218	B6012-272K	2700.0	0.06	0.28	16.10
B6012-330K	33.0	0.3	2.4	0.308	B6012-332K	3300.0	0.06	0.26	18.35
B6012-390K	39.0	0.3	2.3	0.340	B6012-392K	3900.0	0.06	0.25	24.82
B6012-470K	47.0	0.3	2.1	0.370	B6012-472K	4700.0	0.03	0.23	25.48
B6012-560K	56.0	0.3	1.9	0.409	B6012-562K	5600.0	0.03	0.21	31.83
B6012-680K	68.0	0.3	1.8	0.449	B6012-682K	6800.0	0.03	0.19	36.90
B6012-820K	82.0	0.3	1.7	0.488					

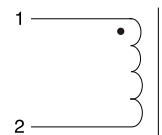
PHYSICAL CHARACTERISTICS:

DIMENSIONS(MM)



LAND PATTERNS

WINDING:



- Testing: (Equivalent acceptable)
Inductance: HP4284A, 10KHz / 0.1V_{dc}@25°C
RDC: QuadTech 1880 Milliohm meter
- Inductance Tolerance: ± 20% (1μH to 10μH)
± 10% (12μH to 6.8mH)
- I_{sat} Max: Determined when superimposed DC current is decreased 5% against its initial value
- Operating temperature: -25°C to +105°C (Including temp. rise 40°C)
- Storage Temperature: -40°C to +85°C
- Resistance to soldering heat: 260°C for 10 seconds
- Solvent resistance: Conforms to MIL-STD-202E
- Marking: Inductance & Tolerance



SMD INDUCTORS

B8020 SERIES

FEATURES:

- Flame retardant encapsulant (UL 94 V-0)
- Completely encapsulated winding provides superior environmental protection and moisture resistance
- High current unit in surface mount package printed with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible

COMMON APPLICATIONS:

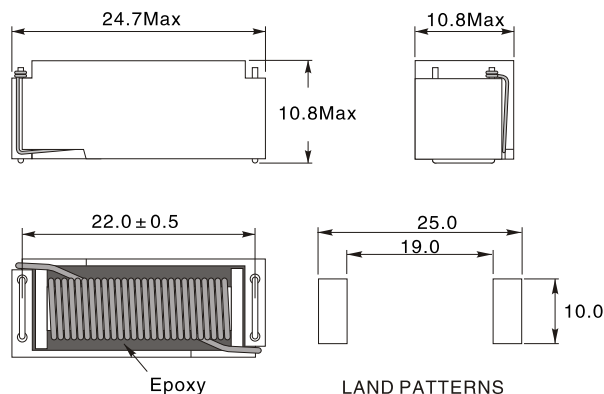
- Excellent power line noise filters
- Filters for switching regulated power supplies, DC/DC converters
- SCR and triac controls
- RFI suppression

ELECTRICAL CHARACTERISTICS:

Part Number	Inductance L0(μH) @0A _{dc}	Heat rating current DC Amps I _{rms} (A)	Saturation current DC Amps I _{sat} (A)	DCR Max. (Ω)	Part Number	Inductance L0(μH) @0A _{dc}	Heat rating current DC Amps I _{rms} (A)	Saturation current DC Amps I _{sat} (A)	DCR Max. (Ω)
B8020-3R9K	3.9	4.0	15.5	.007	B8020-681K	680	1.0	1.05	.548
B8020-4R7K	4.7	4.0	13.9	.008	B8020-821K	820	0.8	.97	.655
B8020-5R6K	5.6	4.0	12.6	.011	B8020-102K	1000	0.8	.87	.844
B8020-6R8K	6.8	4.0	11.6	.011	B8020-122K	1200	0.6	.79	1.04
B8020-8R2K	8.2	4.0	9.89	.013	B8020-152K	1500	0.6	.70	1.18
B8020-100K	10	4.0	8.70	.017	B8020-182K	1800	0.6	.64	1.56
B8020-120K	12	4.0	8.21	.019	B8020-222K	2200	0.5	.58	2.00
B8020-150K	15	4.0	7.34	.022	B8020-272K	2700	0.4	.53	2.06
B8020-180K	18	4.0	6.64	.023	B8020-332K	3300	0.4	.47	2.53
B8020-220K	22	4.0	6.07	.026	B8020-392K	3900	0.4	.43	2.75
B8020-270K	27	4.0	5.36	.027	B8020-472K	4700	0.4	.39	3.19
B8020-330K	33	4.0	4.82	.032	B8020-562K	5600	0.315	.359	3.92
B8020-390K	39	4.0	4.36	.033	B8020-682K	6800	0.250	.322	5.69
B8020-470K	47	4.0	3.98	.035	B8020-822K	8200	0.250	.293	6.32
B8020-560K	56	3.2	3.66	.037	B8020-103K	10000	0.250	.266	7.30
B8020-680K	68	2.5	3.31	.047	B8020-123K	12000	0.200	.241	9.21
B8020-820K	82	2.0	3.10	.060	B8020-153K	15000	0.200	.214	10.50
B8020-101K	100	1.6	2.79	.090	B8020-183K	18000	0.158	.198	14.80
B8020-121K	120	1.6	5.54	.113	B8020-223K	22000	0.125	.180	21.8
B8020-151K	150	1.6	2.22	.129	B8020-273K	27000	0.125	.162	22.7
B8020-181K	180	1.6	1.98	.150	B8020-333K	33000	0.125	.146	25.7
B8020-221K	220	1.6	1.89	.162	B8020-393K	39000	0.100	.135	31.8
B8020-271K	270	1.6	1.63	.208	B8020-473K	47000	0.100	.122	36.1
B8020-331K	330	1.6	1.51	.212	B8020-563K	56000	0.100	.112	40.9
B8020-391K	390	1.6	1.39	.281	B8020-683K	68000	0.082	.101	57.3
B8020-471K	470	1.2	1.24	.380	B8020-823K	82000	0.065	.090	79.3
B8020-561K	560	1.0	1.17	.420	B8020-104K	100000	0.065	.081	89.7

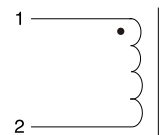
PHYSICAL CHARACTERISTICS:

DIMENSIONS(MM)



LAND PATTERNS

WINDING:



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